

HAZARD ANALYSIS

Work Plan Title: Cutting and Drilling Holes in Plastic Scintillator Strips

Date: 1/25/2008

Prepared By: Anna Pla-Dalmau

Reviewed By: (optional)

Approved By (Supervisor/Task Manager):

Description of work:

Plastic scintillator strips extruded in Lab 5 will be cut to size as part of a secondary operation to yield strips of a precise length and then a hole may also be drilled out in a specific position of the strip.

Personal Protective Equipment: (Check protective equipment required for the job.)

- | | | |
|--|---------------------------------------|---|
| <input checked="" type="checkbox"/> Safety glasses | <input type="checkbox"/> Side shields | <input type="checkbox"/> Chemical splash goggles |
| <input type="checkbox"/> Hearing Protection | | <input type="checkbox"/> Hard Hats |
| <input type="checkbox"/> 3.0 Braising goggles | | <input type="checkbox"/> Impact goggles |
| <input type="checkbox"/> Face shield | | <input type="checkbox"/> Rubber apron |
| <input type="checkbox"/> Leather gloves | | <input type="checkbox"/> Hot/Cold thermal protective gloves |
| <input type="checkbox"/> Chemical resistant gloves (specify type): | | <input type="checkbox"/> Respirators |
- ☒ Other required PPE (specify):

You may want to wear a lab coat, hair net and/or face mask just to prevent dust from the sawing operation to stick to clothing, hair and face.

☐ Fall protection equipment (specify):

Equipment required for the job: (List the tools needed to perform the job.)

Drop/miter saw with appropriate blade for plastic materials. The people doing this task should have equipment training.

Table or bench to setup appropriate stop to cut strips to required length.

Vacuum port and hose to aspirate dust from cutting operation.

Bucket to collect scrap pieces.

Drill press with appropriate drill bit for plastic materials. The people doing this task should have equipment training.

Crate/container/table to place strips after cutting and drilling operations.

Work Plan History Information: (List any lessons learned accidents from this job, tips from previous jobs)

HAZARD ANALYSIS

Step	Description	Hazards	Precautions / Safety Procedures
1	Setup saw and table with stop for required strip length.	Potentially heavy object	Use appropriate lifting techniques: bend knees, use handles in saw.
2	Connect vacuum hose to aspirate saw dust.	No hazards identified	N/A
3	Setup scrap bucket under saw.	Hitting head or upper body	Be aware of saw location.
4	Place full crate with strips and empty crate to collect strips cut close to saw. This will require the use of the fork truck in Lab 5.	Fork truck operation. Lifting heavy and large objects.	Only people with appropriate fork truck training can operate a fork truck.
5	Cut plastic scintillator strips using drop saw.	Cutting equipment	Appropriate equipment training is required to operate saw. John Korienek (FNAL, Lab 8) will offer training to people involved in this operation.
6	Drill hole in plastic scintillator strips using drill press.	Cutting equipment	Appropriate equipment training is required to operate drill press. John Korienek (FNAL, Lab 8) will offer training to people involved in this operation.
7			

(Use additional pages as needed.)

① Carl Lindenmeyer talked to the people from the University of Chicago planning to do the cutting of the scintillator strips.


My supervisor has reviewed this hazard analysis with me and I understand the hazards and required precautionary actions. I will follow the requirements of this hazard analysis or notify my supervisor if I am unable to do so. I understand that there are Environmental, Safety and Health Professionals on staff if I need further assistance or clarification.

Name and ID (please print)	Signature	Date
----------------------------	-----------	------

ELIZABETH POD 08015V		Jan 29, 2008
----------------------	--	--------------

Edward Blucher (V6864)		1/29/08
------------------------	--	---------

Francis Manbo (13749V)		1/29/08
------------------------	--	---------

Irina Kubaetseva (12559)		02/07/08
--------------------------	---	----------